PG-A20X

[White]
PG-A10X/S

[Silver]
PG-A10X-SL / PG-A10S-SL

Optional Accessories

Remote Receiver

AN-MR1EL

Cables

AN-C3CP
3-RCA to 15-pin
D-sub cable (3 m)

AN-C3BN
5-BNC to 15-pin
D-sub cable (3 m)

AN-C10BM
Computer RGB cable
15-pin mini D-sub
male connector (10 m)

AN-C10RS
RS-232C serial
control cable (10 m)

Ceiling Mounts

AN-TK201
For high ceiling
installation

AN-TK202
For standard
ceiling installation

AN-A10T
Installation adaptor

Replacement Parts: Lamp unit BQC-PGA20X//1 (PG-A20X), BQC-PGA10X//1 (PG-A10X/S)

Specifications

Model	PG-A20X	PG-A10X/A10X-SL	PG-A10S/A10S-SL
LCD panel			
Panel size	Poly Silicon 0.79" (2.0cm)		
Drive system	Active Matrix TFT		
No. of pixels	2,359,296 pixels (786,432 dots x 3)		1,440,000 pixels (480,000 dots x 3)
Lens	1:1.2 manual zoom and focus, F1.7-1.94, f=26-31mm	1:1.2 manual zoom and focus, F1.9-2.2, f=26-31mm	
Projection lamp	180W (SHP) lamp	165W (SHP) lamp	
Luminance	2,000 ANSI lumen (Standard mode)/ 1,600 ANSI lumen (Eco mode)	1,300 ANSI lumen (Standard mode)/ 1,040 ANSI lumen (Eco mode)	1,500 ANSI lumen (Standard mode)/ 1,200 ANSI lumen (Eco mode)
Contrast ratio	400:1	450:1	400:1
Luminance ratio	90%	95%	
Lamp life	4,500 hours (Eco mode)/3,000 hours (Standard mode)		
Fan noise	33 dB (Eco mode)/37 dB (Standard mode)	31dB (Eco mode)/35dB (Standard mode)	
Audio output	1W (mono)		
Speakers	2.8 cm (round) x 1		
Power source	110-240V AC, 50/60 Hz (multi-voltage)	100-240V AC, 50/60 Hz (multi-voltage)	
Power consumption	240W (Standard mode)/200W (Eco mode) with 110V AC 235W (Standard mode)/195W (Eco mode) with 240V AC	240W (Standard mode)/190W (Eco mode) with 100V AC 226W (Standard mode)/182W (Eco mode) with 240V AC	
Power consumption (standby)	4W (110V AC) – 6W (240V AC)	5W (100V AC) – 8W (240V AC)	
Heat dissipation	900 BTU/hour (Standard mode)/ 750 BTU/hour (Eco mode) with AC 110V 880 BTU/hour (Standard mode)/ 730 BTU/hour (Eco mode) with AC240V	900 BTU/hour (Standard mode)/710 BTU/hour (Eco mode) with AC 100V 850 BTU/hour (Standard mode)/680 BTU/hour (Eco mode) with AC240V	
Operating temperature	+5°C to +35°C		
Storage temperature	-20°C to +60°C		
Video colour signals	NTSC/NTSC 4.43/PAL/PAL(60Hz)/PAL-M/PAL-N/SECAM/DTV (480I/480P/540P/580I/580P/720P/1035I/1080I-50Hz/60Hz)		
RGB input signals	SXGA+/SXGA/Mac 21" (in intelligent compression), XGA, SVGA, VGA, VESA, Mac 19"/16"/13", 15-70 kHz (horizontal), 43-85 Hz (vertical), 12-108 MHz (pixel clock) (plug & play VESA, DDC 1/28)		SXGA+/SXGA/XGA/Mac 21"/ 19"/16" (in intelligent compression), SVGA, VGA, VESA, Mac 13", 15-70 kHz (Horizontal), 43-85 Hz (Vertical), 12-108 MHz (Pixel clock) (plug & play VESA, DDC 1/28)
Input terminals			
Computer input signals	Computer RGB/component x 1(15-pin mini D-sub), audio L/R x 1 (3.5 mm mini jack)		
Video input signals	Video x 1 (RCA), S-video x 1		
Other	RS-232C serial port x 1 (9-pin mini Din)		
Cabinet	Plastic		
Dimensions	297 x 81 x 229 mm (main body only) 297 x 89 x 229 mm (including adjuster and projecting parts)		
Weight	2.9 kg		
Supplied accessories	Remote control, R-6 battery (x2), power cord, RGB cable, carrying case, lens cap, extra air filter, projector manual and technical reference CD-ROM, "QUICK GUIDE" label, operation manual		

Design and specifications are current as of September 2003, but are subject to change without prior notice.

SHARP

SHARP CORPORATION OSAKA, JAPAN
URL http://www.sharp-world.com/

1N0084N © SHARP CORP. (SEP. 2003 PRINT) I 1 E Printed in Japan

SHARP

PG-A20X (Silver)
PG-A10X (White) / -SL (Silver)
PG-A10S (White) / -SL (Silver)

TRUE XGA/SVGA MICRO PORTABLE LCD PROJECTOR

High-Quality Basic Features and User-Friendly Operation with High-Brightness Pictures — A Totally-Balanced Business Projector Always at Your Side

Notevision

PG-A20X

Quick Setup and Start! With the PG-A20X or PG-A10X/A10S, Anybody Can Be Ready Anytime to Give a Perfect Presentation Anywhere on the Road.

The PG-A20X & PG-A10X/S simplify basic features for exact operation for anybody rather inexperienced with presentations. They provide speedy preparation, simple and smooth operation, a file-size compact and lightweight body, high-brightness, a long-life lamp and low noise design, creating a comfortable presentation environment and rendering successful business results. Now that anyone can give an impressive presentation with the PG-A20X or PG-A10X/A10S, companies will surely wish to assign one to each division and department.

Essential Elements of Mobile Presentation

4500-Hour Longer Lamp Life

Employing Low Power Shutdown (LPS) and a newly designed lamp with reduced impurity in materials and increased purity achieves a long lamp life of 4500 hours in Eco mode (3000 hours in Standard mode). The lamp can provide superior performance for as long as 4 years and 3 months when used 4 hours per day, 5 days a week.

Long-Life Lamp: Reduction in glass transparency caused by impurity in lamp materials combined with inferiority of electrodes together decrease lamp brightness. This is the main reason lamp life is restricted. In the PG-A20X/A10X/A10S, impurity of lamp materials is reduced, increasing lamp life.

LPS (Low Power Shutdown): This technology reduces damage to the lamp electrodes by maintaining low power mode when the lamp is turned off. When switching into the low power mode, the glass cools more quickly than the electrodes and prevents excess enclosure material from adhering to the electrodes, which causes resistance when turning the lamp on. The result is improved lighting the next time the lamp is turned on and preventing high-voltage being applied to the electrodes when the lamp is off.

Lamp Life: This is the average time for the lamp's luminance to decrease to half and is not a guarantee of time.

2000/1600 ANSI Lumen Brightness (PG-A20X)
1500/1200 ANSI Lumen Brightness (PG-A10S)
1300/1040 ANSI Lumen Brightness (PG-A10X)

Incorporating Sharp optoelectronics technology, these projectors provide much brighter pictures (2000, 1500 and 1300 ANSI lumen for the PG-A20X, A10s and A10X, respectively) even from a compact body in Standard mode. Plus, they can be set differently in Eco mode (1600, 1200 and 1040 ANSI lumen for the PG-A20X, A10S, and A10X, respectively) according to room lighting conditions and presentation purposes.

Compact-to-Carry File-Size Body

PG-A20X/A10X/A10S boasts a compact, file-size design (29.7 x 22.9 x 8.1 cm) with a lightweight body (2.9 kg), accompanying you with your PC to provide presentations anywhere.

Smooth Presentations Even for Beginners

Intuitive Layout of Buttons and Terminal Layout

For intuitive button layout, essential and frequently used buttons for basic operations, setup and image adjustment are located close together. This layout allows simple setup and operation for anybody. And, a wide variety of AV/PC terminals are effectively placed with colour guidance.

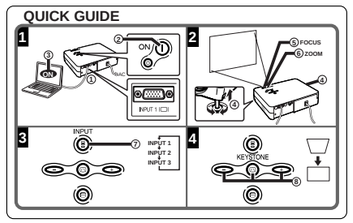
Rear Terminal

Page Up/Down Buttons on Remote Control

With the optional remote receiver AN-MR1EL, screens displaying presentation software such as PowerPoint® can be easily moved forward and back by remote control.

Quick Guide

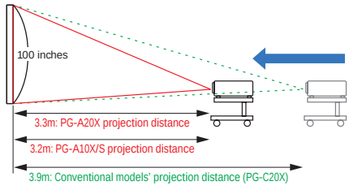
Any person first using the PG-A20X/A10X/A10S can quickly set up and use it with just a quick glance at the reference sticker enclosed. Sticking it close to operation buttons simplifies basic operation by eliminating the need to check operation manuals.



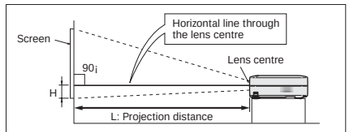
Presentation Support from Setup Flexibility and Convenient Operation

Short Throw Lens

The Short Throw Lens makes large-screen presentation possible even in a small meeting room.


100 inches
3.3m: PG-A20X projection distance
3.2m: PG-A10X/S projection distance
3.9m: Conventional models' projection distance (PG-C20X)

■ **Correlation of PG-A20X/A10X/A10S and Screen**



4:3 Zoom Mode (Standard mode with computer input) (PG-A20X)

Picture size			L: Projection distance		H: Distance between bottom of the picture and the lens centre
Diagonal (inches)	Width (m)	Height (m)	Shortest	Longest	
300	6.1	4.6	10.0m	11.9m	44.4cm
250	5.1	3.8	8.3m	9.9m	37.0cm
200	4.1	3.1	6.6m	7.9m	29.6cm
150	3.1	2.3	5.0m	5.9m	22.2cm
100	2.0	1.5	3.3m	3.9m	14.8cm
84	1.7	1.3	2.7m	3.3m	12.4cm
72	1.5	1.1	2.3m	2.8m	10.7cm
60	1.2	0.9	1.9m	2.3m	8.9cm
40	0.8	0.6	1.3m	1.5m	5.9cm

4:3 Zoom Mode (Standard mode with computer input) (PG-A10X/S)

Picture size			L: Projection distance		H: Distance between bottom of the picture and the lens centre
Diagonal (inches)	Width (m)	Height (m)	Shortest	Longest	
300	6.1	4.6	9.8m	11.8m	46.2cm
250	5.1	3.8	8.2m	9.8m	38.5cm
200	4.1	3.1	6.5m	7.9m	30.8cm
150	3.1	2.3	4.9m	5.9m	23.1cm
100	2.0	1.5	3.2m	3.9m	15.4cm
84	1.7	1.3	2.7m	3.3m	12.9cm
72	1.5	1.1	2.3m	2.8m	11.1cm
60	1.2	0.9	1.9m	2.3m	9.2cm
40	0.8	0.6	1.3m	1.5m	6.2cm

31 dB/33 dB Low Fan Noise (in Eco Mode) and Front Ventilation

The projector employs an Eco mode and a newly developed separate cooling system for reducing fan noise (31 dB for the PG-A10X/S and 33 dB for the PG-A20X in Eco mode). Plus, Front Ventilation produces a comfortable presentation environment without the disturbance of air being blown back toward the presenter.

Wide Angle Adjustment

The angle of the front adjuster is a full 12° (5° for conventional models) and a 3° rear adjuster is added. This enables wide, free, and flexible angle adjustment for projection placement. The projector can also be mounted on ceilings with projection flipped left/right or up/down.

Automatic Keystone Correction*

The PG-A20X detects inclination of the upper and lower sides of the projector and automatically corrects trapezoidal distortion of the image projected on the screen, making it much easier and quicker to set up the projector and start your presentation.

* PG-A20X only.

Simple Key Lock and Anti-Theft Function

The key lock and cancel are easily controlled with a key button on the projector body and the remote control. These functions are useful for example to prevent children from meddling, or any other time to avoid tampering.

Excellent PC Compatibility

Excellent Compatibility with a Wide Range of Computer Input Signals

The PG-A20X/A10X is truly compatible with XGA (1,024 x 768). In addition, SXGA+ (1,400 x 1,050) and SXGA (1,280 x 1,024) are also compatible in intelligent compression*1 for natural, smooth and clear PC display projection. For the PG-A10S, SVGA is truly compatible and SXGA+ (1,400 x 1,050) and SXGA (1,280 x 1,024) are also compatible in intelligent compression.*1

- Horizontal Frequency: 15-70 kHz
- Vertical Frequency: 43-85 Hz
- Pixel Clock: 12-108 MHz

sRGB Compatibility

sRGB Compatibility, the international standard for colour reproductivity, faithfully reproduces on PC displays the colour tones, phases, and gradations of the original pictures.

Auto Response Adjust (ARA)

One touch automatically synchronises subtly different projection signals from connected PCs.

Superior Video Image Quality

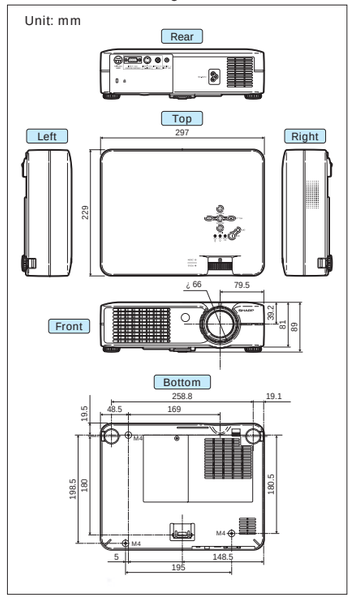
Big-Screen Projection of DVD*2 Software

With the merging of advanced technology from theatre projectors and high-grade television, the PG-A20X & PG-A10X/S provide high-quality pictures for DVDs, Hi-vision broadcasts and education videos in large-screen projection. The projector is also compatible with worldwide broadcast signals such as NTSC, PAL and SECAM.

Other Outstanding Features

- **Sharp Original Pull-Down Menu GUI (Graphical User Interface)**
  The easy-to-use icon-based GUI shows how to adjust the picture, language or other settings on the screen, and single adjustment items can be displayed without disturbing the screen with menu bars.
- **Built-In 1 W Speaker**
- **Enlarge & Freeze**
- **Picture Setting Memory**

■ **Dimensional Drawings**



*1 True SXGA, SXGA+ and UXGA pictures cannot be displayed.
*2 A separate DVD player is needed for viewing DVDs.